

UNCLASSIFIED//
MSGID/GENADMIN/COMNAVSURFOR SAN DIEGO CA//
SUBJ/DCRA 2010-2/BINDING/SEAWATER AND AFFF FIRE FIGHTING HOSE NOZZLES
/MANUFACTURED BY ELKHART BRASS MFG CO//
REF/A/MSGID:/NAVSURFWARCEN/021149ZFEB2010//
AMPN/REF A IS IN SERVICE ENGINEERING (ISE) ADVISORY NO, 004-10//
POC/CSAPO/LT/UNIT:COMNAVSURFOR N43/-/TEL:757-836-3373
/EMAIL:PAUL.CSAPO(AT)NAVY.MIL//
RMKS/1. THE PURPOSE OF THIS MESSAGE IS TO FORWARD REF A WHICH
PROVIDES NOTIFICATION THAT 1.5 INCH AND 2.5 INCH FIRE HOSE NOZZLES
WITH A RISK OF BINDING HAVE BEEN FOUND INSTALLED ON SHIPS. REPORT
COMPLETION BY NAVAL MESSAGE TO COMNAVSEASYS COM 05P14 NLT 17MAY10 OF
ACTIONS TAKEN OUTLINED IN REF A. ENSURE COMNAVSURFOR SAN DIEGO CA,
COMNAVSURFLANT NORFOLK VA, APPLICABLE CLASSRON AND ISIC ARE COPIED
ON NAVAL MESSAGE REPLY.
2. TAKE REF A QUOTED BELOW FORAC:
QUOTE
P 021149Z FEB 10 ZYB
FM NAVSURFWARCEN SHIPSYSENGSTA PHILADELPHIA PA/668/
TO COMNAVSURFLANT NORFOLK VA//N43/
COMNAVSURPAC SAN DIEGO CA//N43/
BT UNCLAS SECINFO/U/-/
MSGID/GENADMIN/NSWCCD-SSES 668//
SUBJ/IN SERVICE ENGINEERING (ISE) ADVISORY NO. 004-10, BINDING/SEAWATER AND
AFFF
FIRE FIGHTING HOSE NOZZLES MANUFACTURED BY/ELKHART BRASS MFG CO/
REF/A/DESC:MSG/NAVSEA/190319ZMAR1996/-/NOTAL//
REF/B/DESC:DOC/NAVSEA/01JAN2010/
REF/C/DESC:DOC/NAVSEA/ 30APR2007/
REF/D/DESC:CON/NSWCCD-SSES/16NOV2009/
NARR/REF A ADDRESSED BINDING ISSUE IN THE 1.5 INCH NOZZLES.
REF B IS NAVAL SHIPS TECHNICAL MANUAL (NSTM) S9086-S3-STM-010 REV 13, NSTM
CHAPTER 555 VOL 1, SURFACE SHIP FIREFIGHTING.
REF C IS NAVAL SHIPS TECHNICAL MANUAL (NSTM) S9086-S3-STM-020 REV 11, NSTM
CHAPTER
555 VOL 2, SUBMARINE FIREFIGHTING.
REF D IS MEETING BETWEEN NSWCCD-SSES 668/B. BERCHTOLD AND NAVSEA 05P14/M.
HUNSTAD/
POC/BRIAN BERCHTOLD/CIV/UNIT:NSWCCD-SSES 668/NAME:PHILADELPHIA PA /TEL:215-
897-8683/
EMAIL:BRIAN.BERCHTOLD@NAVY.MIL/
GENTEXT/REMARKS/1. PURPOSE: TO PROVIDE NOTIFICATION THAT 1.5 INCH AND 2.5
INCH FIRE HOSE
NOZZLES WITH A RISK OF BINDING HAVE BEEN FOUND INSTALLED ON SHIPS. THESE
NOZZLES COULD
PRESENT A POTENTIAL PERSONNEL SAFETY HAZARD IF THEY FAIL TO OPERATE PROPERLY
WHILE IN USE.
THIS ADVISORY PROVIDES BACKGROUND ON RISK AND THE METHOD TO DISTINGUISH
SUSPECT NOZZLES FROM
NON-SUSPECT NOZZLES.
2. BACKGROUND:
A. CERTAIN OLDER 1.5 INCH AND 2.5 INCH FIRE HOSE NOZZLES, MIL-N-24408,
MANUFACTURED BY ELKHART
BRASS MFG CO. AND PROCURED UNDER THE NSN'S 4210-00-465-1906 (1.5 INCH, 95
GPM),
4210-00-601-0986 (1.5 INCH, 125 GPM), AND 4210-00-465-1904 (2.5 INCH, 250
GPM) WERE DESIGNED

AND MANUFACTURED WITH A BRASS SLIDING STEM BASE/POPPET ASSEMBLY. FULL FLOW OF SUCH NOZZLES

REQUIRES THE STEM BASE/POPPET ASSEMBLY TO SLIDE APPROXIMATELY 0.25 INCH OPENING THE WATERWAY.

IT WAS FOUND THAT SURFACE CORROSION OF THE BRASS STEM BASE MAY CAUSE IT TO BIND IN A POSITION

CAUSING NO FLOW OR REDUCED NOZZLE FLOW.

B. ELKHART BRASS MFG CO. MODIFIED THE DESIGN OF THESE NOZZLES TO INCORPORATE A FIXED STEM

BASE/POPPET ASSEMBLY, ELIMINATING THE NEED FOR SLIDING MOVEMENT OF THE ASSEMBLY TO ATTAIN NOZZLE FLOW.

ALL 1.5 INCH AND 2.5 INCH NOZZLES MANUFACTURED BY ELKHART UNDER THE SUBJECT NSN'S AFTER 1993 AND 1994

RESPECTIVELY INCORPORATED THE FIXED STEM BASE/POPPET ASSEMBLY.

C. REF A ADDRESSED THE SUBJECT ISSUE WITH THE OLDER 1.5 INCH MODELS IN THE FLEET BY PROVIDING

INFORMATION ON THE AVAILABILITY AND INSTALLATION OF A REPLACEMENT NON-BRASS BASE ASSEMBLY WHICH COULD

BE INSTALLED BY SHIP'S FORCE. HOWEVER, CONTINUED PRESENCE OF BINDING 1.5 INCH NOZZLES IN THE FLEET INDICATES

A LACK OF CONFORMANCE TO THE DIRECTION OF REF A. DUE TO COLOR SIMILARITIES BETWEEN THE BRASS AND

REPLACEMENT NON-BRASS STEM BASES, DETERMINING CONFORMANCE TO REF A FOR AN INDIVIDUAL NOZZLE IS IMPOSSIBLE

WITHOUT DISASSEMBLY OF THE NOZZLE. DIFFICULTIES ENCOUNTERED DURING PAST DISASSEMBLY/RE-ASSEMBLY OF THE

NOZZLES MAKE FURTHER ATTEMPTS AT STEM BASE REPLACEMENT INFEASIBLE.

D. REF A DID NOT ADDRESS 2.5 INCH NOZZLES AS THEY WERE THOUGHT AT THE TIME TO BE UN-AFFECTED BY THE ISSUE.

HOWEVER, OLDER 2.5 INCH NOZZLES WITH BINDING STEM BASES RECENTLY ENCOUNTERED ON SHIPS INDICATE THE ISSUE DOES

ALSO PERTAIN TO THE OLDER 2.5 INCH MODELS.

E. THE SUBJECT NSN'S HAVE BEEN SUPPLIED BY NUMEROUS MANUFACTURERS. ONLY THOSE NOZZLES MANUFACTURED BY ELKHART

BRASS MFG CO. ARE AFFECTED BY THIS ADVISORY. THE FOLLOWING WILL AID IN DISTINGUISHING ELKHART MODELS FROM

OTHER MANUFACTURERS' MODELS:

1) 1.5 INCH NOZZLES MANUFACTURED BY ELKHART WILL HAVE BRASS BAIL HANDLES AND BRASS (OR OTHER METAL) CAST

PISTOL GRIPS. THEY DO NOT HAVE BLACK PLASTIC/RUBBER BAILS OR BLACK PLASTIC/RUBBER PISTOL GRIPS. MOST HAVE

"ELKHART" EMBOSSED ON THE SIDE OF THE PISTOL GRIP.

2) 2.5 INCH NOZZLES MANUFACTURED BY ELKHART WILL HAVE A BRASS BAIL HANDLE. THEY DO NOT HAVE BLACK

PLASTIC/RUBBER BAILS NOR DO THEY HAVE A PISTOL GRIP.

F. THIS ADVISORY IS NOT APPLICABLE TO 0.75 INCH FIRE HOSE NOZZLES.

3. RECOMMENDED ACTIONS:

A. ALL SURFACE SHIPS, SUBMARINES, AND AIRCRAFT CARRIERS CONDUCT INVENTORY SURVEY OF ALL 1.5 INCH AND 2.5 INCH

SEAWATER AND AFFF FIRE HOSE NOZZLES ABOARD SHIP, INSTALLED AND ON-BOARD SPARES. INSPECT NOZZLES MANUFACTURED

BY ELKHART (DISTINGUISHED USING GUIDANCE IN PARA 2.E. OF THIS ADVISORY) FOR THE PRESENCE OF A SLIDING STEM

BASE/POPPET ASSEMBLY USING THE FOLLOWING PROCEDURE TO IDENTIFY THE STEM BASE TYPE:

- 1) FULLY OPEN NOZZLE BAIL.

2) DIRECT NOZZLE TIP AT A LIGHT SOURCE WHILE LOOKING INTO THE HOSE INLET OF THE NOZZLE.

3) EXAMINE THE NUMBER OF LEGS PRESENT ON THE STEM BASE. THE SUSPECT SLIDING STEM BASE WILL HAVE THREE LEGS THAT ARE RELATIVELY THIN. THE NEWER FIXED STEM BASE WILL HAVE ONLY TWO LEGS THAT ARE CAST AND APPEAR RELATIVELY THICKER. ALL NOZZLES WITH THE OLDER STYLE SLIDING STEM BASE (3 "LEGS") SHOULD BE REPLACED WITH NEWER MODEL NOZZLES AS SOON AS FEASIBLE.

4) MARK AND DISPOSE OF DISCREPANT NOZZLES AS FOLLOWS:

A) METAL STAMP DISCREPANT NOZZLES WITH THE LETTERS "N RFI" (MINIMUM 0.25" CHARACTERS) IN A CLEARLY VISIBLE LOCATION ON THE TOP OF NOZZLE BODY.

B) TAG WITH THE STATEMENT DEFECTIVE ITEM, NOT FOR ISSUE AND ATTACH TAG TO NOZZLE BAIL.

C) AFTER STAMPING AND TAGGING, TURN DEFECTIVE NOZZLES IN TO LOCAL DRMO FACILITY.

5) REPORT COMPLETION AND THE NUMBER OF NOZZLES REPLACED, IF ANY, WITHIN 90 DAYS FROM ISSUANCE OF THIS ADVISORY BY NAVAL MESSAGE TO ORIG, COPY TO COMNAVSEASYS COM 05P14.

B. REQUEST DSCP PURGE STOCK SYSTEM INVENTORY OF DISCREPANT NOZZLES.

C. REQUEST DRMS ENSURE THAT TURNED IN NOZZLES ARE DISPOSED OF AND NOT RETURNED TO THE FLEET.

4. REF B HAS BEEN REVISED TO INCLUDE CONTENT OF THIS ADVISORY, INCLUDING GRAPHICAL GUIDANCE TO ASSIST IN IDENTIFYING SUSPECT NOZZLES. REF C WILL ALSO BE REVISED TO INCLUDE THE CONTENT OF THIS ADVISORY AS WELL; TMDER N65540-10-DU02 APPLIES.

5. THIS ADVISORY HAS NO IMPACT TO PMS, SUPPLY SUPPORT/APLS, CLASS MAINTENANCE PLANS, FORMAL TRAINING AND EOSS. IMPACT TO TECH MANUALS IS OUTLINED IN PARAGRAPH 4 ABOVE. THIS ADVISORY WILL REMAIN IN EFFECT UNTIL IT HAS BEEN VERIFIED THAT ALL SUSPECT NOZZLES HAVE BEEN PURGED FROM ALL NAVY SHIPS AND STOCK SYSTEM INVENTORY, AND WHEN REFS B AND C HAVE BEEN UPDATED.

6. PER REF D, THE NAVY TECHNICAL WARRANT HOLDER FOR FIRE PROTECTION SYSTEMS CONCURS WITH THIS ADVISORY.

7. REQUEST TYCOMS PASS THIS ADVISORY TO ALL SURFACE SHIPS, SUBMARINES, AND AIRCRAFT CARRIERS FOR ACTION.

UNQUOTE//